

CLAIM LISTING

This listing of claims will replace all prior versions, and listings of claims in the application:

IN THE CLAIMS

- 1-22. (canceled)
23. (original) A method of maintaining configuration data in a configurable device, the method comprising the steps of:
- (a) performing a first readback of a portion of the configuration data and generating a first checksum value indicative thereof;
 - (b) performing a second readback of the same portion of the configuration data and generating a second checksum value indicative thereof; and
 - (c) comparing the first checksum value with the second checksum value and, if they are not identical, indicating that remedial action should be taken.
24. (original) The method as set forth in claim 23, the method further comprising the step of initiating a reconfiguration of the configurable device when remedial action is indicated.
25. (original) The method as set forth in claim 23, the comparison being performed by a microcontroller.
26. (original) The method as set forth in claim 23, the comparison being performed by a second configurable device, the first and second configurable devices being initially configured with identical configuration data.

27. (original) A method of maintaining correct configuration data in a configurable device, the method comprising the steps of:
- (a) performing a readback of a portion of the configuration data and generating a checksum value indicative thereof;
 - (b) comparing the first checksum value with a predetermined master checksum value, the master checksum value being known to be correct; and
 - (c) indicating, if the comparison reveals that the checksum values are not identical, that remedial action should be taken.
28. (original) The method as set forth in claim 27, the method further comprising the step of initiating a reconfiguration of the configurable device when remedial action is indicated.
29. (original) The method as set forth in claim 27, the comparison being performed by a microcontroller.
30. (original) A method of correcting an error in configuration data in a configurable device, the error being confined to a portion of the configuration data, the method comprising the steps of:
- (a) identifying the portion of the configurable data containing the error; and
 - (b) reconfiguring only the portion of the configuration data containing the error.
31. (original) The method as set forth in claim 30, the portion of the configuration data containing the error being a single data frame.
32. (original) The method as set forth in claim 30, step (a) being accomplished using limited readback and comparison with a checksum value.

33. (original) A method of correcting an expected error in configuration data in a configurable device, the configuration data being subject to periodic errors, the method comprising the steps of:
- (a) determining the upset frequency with which an error is likely to occur; and
 - (b) reconfiguring the configuration data with a scrub frequency based upon the determined error frequency and without determining whether an error has actually occurred.
34. (original) The method as set forth in claim 33, the configuration data being exposed to radiation likely to cause the expected error, the error frequency being determined based upon length of exposure of the configuration data to the radiation and the expected strength of the radiation.
35. (original) The method as set forth in claim 33, the scrub frequency being one order of magnitude greater than the error frequency.

36-48. (canceled)